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a modem to
make contact
with outside

Bank on it – a home accounts program to





ROAD

FIRST AID



for your 64

continuation of code and care to perform effectively in the business or the home. And that requires first hand knowledge from you to create a healthy operating environment for your Commodore 64.

Knowledge about machine language, about the lesser known qualities of the 64, about the disc drives, graphics, and about the ricks and tipso beep your 64 on line. That's why First Publishing has now launched in the UK a series of high quality books and officure packages to provide a complete health earlier kit for your 4. Commodere 64 users throughout Europe have already found it

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COMMENT

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Other machines.

The road ahead

The tide is turning towards more machines and Commodore are shough, not unwillingly, be away. The two American ma

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forgotton. Only when you as will we stop writing abthat's a long way off yet. Plan/4 price slashe

Plus/4 price slashed The even better news, if you to have a Place, is that Con-

ren better news, if you are j y a Plus A, is that Commodsnoed a 38% price reduction ine. Commonting on this i on, Howard Stanwarth, nodure UR, said: "At \$15







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the a treasure hunt for 41 real dis-Dely one man knows where they are, and

All that he has to say he's said already -

GUL but in the form of riddles, class and our Solve the ou

On cassette or

Already it's recognised as the best that game ever seen outside of Wernbley It's startlingly life-like, and gives you new

You can kick the hall dribble it, pass it.













COMMODORE 64 (Joystick Compatible)



Instead of ten aliens, Cl for his Commod

What happened no



Commodure Communications Modern.
Tells me it comes with a year's free subscription to Computer, a new network errore, saving me a cool thirry qual.
A bargain not to be missed, so I bough Modern.

Saturday (one week late

ame through this morning.

Harriselly plugged the Modern into my
ski cartridge port, and hooked up to the
elephone line.

Cash wait.

At last I can communicate with other Commodore 64 Modem owners and gian mainframes.

What's more I can also access dambe This is what home computing's all above.

Sunday morning.

Existing.

Topped in my Computer LD.

and personal possessond.

Modern users by entering Mala User Dangero, an interaction on-line game. Should stretch the old groy matter a Them a quick look in The Jungle: Th is an open area where other Modern own deplay messages. See a Commodore user in 14th wares off U-boar for AS 00.

Monday evening.

Move on to the Compute
Software Park.

What a choice Loade of high quality

What a choice. Loads of high quality burgain programs. Particularly interested in education software, so I call up 'The Study.' Clive bought a Modem ore 64

ext changed his life.





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Protek user to user



Technical specification

Prism user to user

RESTORE TO LINE

Mathod Is Simple Silver 2000-2000

Mathod It BASIC Silver 2000-2000;

Method 3: Machine Code (Lines 4000)

. 10500 91 02 22 C1 PE





How it works

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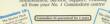








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Cassette data files.

Cassette data files

Although the floppy di
the natural medium soring file information, rafe to assume that the major readers who ow Commodore machine will

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all 8 contains in information required by a program. It program must be based if and must contain his and must contain his which start maching in the disc. Obviously, the claimmust already be resting in to content until and rewound the correct position.

The OPEN statement

en in conventional stems, you can't put a p of paper in a feither i su open it fine. Similarly set close the feither fore slipping it back in



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The PRINT # statement

The INPUT # statement

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PROGRAMMING PROJECTS

148 FD+90R+48#(CR+1)+00+1

118 OUT AM: 1F BE-**

and lelb because, a year will finel it provide program as in his development to let, fine until it reaches the edge of a suidow, then it year can of the wheel another, then it year can be the season of the wheel and the cast line to the whether. We we place line in the he part par the height. But, we can not to the end of a suidow: It the column number of near position for a character become whether the column number of the part of the column number of the suidow. It is not a character become whether the number of the number of

120 SF CCCTC+6-1 THEN CC+TC-CR+CR+1

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150 IF CROTR-H-1 THDS CR-TR-H-1: 00000 10

The serviling can be achieved by copying the second now of the window with the first year, the third resi into the second, and so one self the bestores now has been capied into the year and the process year was the fitted with spacer. The process is the process of the passes of these, and then PCDCR (and the passes of these passes of the passes of th

1000 FOR RHTR+1 TO TEHH-1 1010 FOR CHTC TO TCHH-1 1000 FOKE FOH-00 (RH-1) HC-1 1000 FOKE FOH-00 (PECKOR) 1048 IF RHTR+H-1 THEN POKE FO, 32 1000 FOKT C sensitive 2000, 2000 at 60 or expected with property and property and

ECCCCCCCCCCC

TC Screen
Window H
W
Upon 1: To bridge of a finder on the same



4900 - GSTO 110

The subsourine for gaming the window pass it to the right, but also brings the kinds to be hard column over to the right. It is 2008 C+TC

1000 MD 100 MD 1

The authoratine for moving the rolaw axis by how moth the window a be moved. Positive numbers indicate at it is to be moved to the night am wewards. Nagative numbers indicate were selected, and the left and operate. The tension assumes that the new positive is the window does not owntrap the oil.

HTR TO TRHH-1 HTC TO TCHH-1 R+600(R+1)+C-1 RD+N,FEEKONE) C: MEXT R

The subcounte for inventing the vioperates by adding 128 to all those characters in the window that are le 336, and subtracting 128 from the It is:

UB. and subtracting LSI from the R in: 4000 FOR R*TR TO TRYH-1 4000 FOR C*TC TO TC+H-1 4000 FF FOR ALL TRYKOMD (E. 1) +C-4000 FF FOR ALL TRYKOMD (E. 1)

4838 IF PERKIND-KIZE TH FORZ HIS PERKINDS & EDTO 4458 4848 POICE RD, PERKINDS 4858 HEST C

AGPS NETURN

Further developments

There are more vays in which facilities provided by the progrades developed here can be improved. I include the following:

A The window level could be inhighted to the facilities of the f

at all times by showing it with a diffiharlaground colour to the rear of display. A The subreurine for moving a wicould be amended so work property when the new position coerlags the one. This would invulve copying window to a temporary store to copying it from there so the new porcessing a window is moved, perhap

copying it floors there to the ones poor in 97thm a swindow is moved, por hag all one should be erused, or spelaced by what was there in the place.

A Moor than one window car specaced at the same time, and any or must be directed to the window har is inseeded. The different win could findly their contents in cith could findly their contents in cith

panning can be developed.

• If a window is panned to the right
free inmediately panned to the right
per haps it should bring back the or
coments rather than blash spaces.

• If these a reindow is moved, the
window could be made the one tolegan is directed, in the present pan

10 PRINT "27 20 TH-15: 10-05: N=5: P=5 30 FOR X-05206 TO 56205 FOR X-7: HEXT X 40 SDX-0224 30 FOR STR TO TEXH-1: FOR CHIC TO TEXH-62 FOR STR TO TEXH-1: FOR CHIC TO TEXH-62 FOR STR TO TEXH-1: FOR CHIC TO TEXH-70 FOR TOX 100: 100

79 FOR 70-106

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100 CHRS 1007 F

110 CHRS 1007 F

111 CHRS 1007 F

112 CHRS 1

230 [F QOSR-H-1 THEN GRETREM-1 1 AND GRETREM-1 200-1 350 C-800089 | 1F C-964 THEN CHC-170 CC-90-1 | 150 C-90008 | 1F C-964 THEN CHC-170 CC-90-1 | 150 C-964 Revision | 1F C-964 Revision | 150 C-964 R

1049 3F RYTOH-1 THD 1059 HEXT 8 1069 HEXT 8 1079 SETURN 2008 CHTC 2018 FSR SHTR TO TRH-2028 SOS-78+13-4FEEX/O 2044 HEXT 8 2059 FSR CHTC+1 TO TRH-2059 FSR CHTC+1 TO TRH-2059 FSR CHTC+1 TO TRH-2059 FSR CHTC+1 TO TRH-

3839 FOR CAFC TO TOHER!
3848 FOR CAFC TO TOHER!
3858 FOR STORM FOR TOHER!
3858 FOR STORM FOR TOHER!
3859 FOR STORM
4850 FOR SAFE TO TEMP!
4850 FOR SAFE TO TEMP!
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TO DESCRIPTION OF THE PROPERTY OF THE PROPERTY

11-33 Draws map as per proj with size, house and positions need from podata statements. 15-37 Lubioutine to read enter for army locations. 40-58 PORCI, armini, 10th or locations and decides it

the standard if the 285-362 Loop to fight hards side has lost all near the regulerd action General line is subcontrol used if the general

30



Program

all placed as random. Each place location of each army, height, we is social or feach army, height, we is soved in the unused art of subove the sore defined graphic of passected by levening the cop of the in peagars 3.7 This is reconstrip there is no zoom in program 3 to reaction to impart army locations.

Program 3 This contains the game it contain more than 86 ch needs to be taken when 1 program only just 86; in

PROGRAMETER

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MEMORY PARTY SHIP

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NET-LION SUBTRICAYLORSUBTRIRAYLE+L+C+R+22 PEEK_UF1C+SIZTHED-MIS NEF_BIFCREF+CO_DIS+S+L+FCRES_C+S+S+L+PGRES_R

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Handling larger numbers *EEEEEEEEEEE

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BASIC Machine code

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